

# VOID

### SEDIMENT STORAGE

The site has a total disturbed area of 2,558 acres. The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.

The disturbance activities consist of Clearing and Grubbing, Grading, Placement of Fill, and Removal of Fill. BMP's as shown on the ESPCP will be adequate to control sediment runoff at this location. Land disturbance activities associated with constructing and removing a sediment basin at this location would cause adverse impacts.

Location	Total Drainage Area (acres)	Disturbed Area (acres)	Required Sediment Storage Volume (yd <sup>3</sup> )	Total Storage Volume Provided (yd <sup>3</sup> )	Sediment Basins		Check Dam (* yd <sup>3</sup> /each)		Inlet Sediment Traps (* yd <sup>3</sup> /each)		Slit Fence (0.30 yd <sup>3</sup> /ft)	
					Pond*	Total Volume (yd <sup>3</sup> )	* of Devices	Total Volume (yd <sup>3</sup> )	* of Devices	Total Volume (yd <sup>3</sup> )	Length of Fence (ft)	Total Volume (yd <sup>3</sup> )
Outfall 1	0.83	0.52	55.61	109.2	N/A	0	1	19.75	N/A	0	298	89.5
Outfall 2	1.03	0.28	69.01	110.88	N/A	0	3	39.5	N/A	0	237.93	71.38
Total Sheet Flow	3.675	1.758	246.23	494.70	N/A	0	N/A	0	N/A	0	1,649	494.70

In order to prevent runoff from bypassing Inlet sediment traps, a temporary sump shall be installed around all Inlet sediment traps that are not located in a low point or an excavated sump. Construct temporary sumps in accordance with Construction Detail D-24C. Temporary sumps shall be installed in a manner that ensures stormwater does not bypass the Inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

The Disturbance Activities consist of Clearing and Grubbing, Removal of Existing Pavement Structure, Removal of Fill, Placement of Fill, and Grading. BMP's as shown on the ESPCP will be adequate to control of sediment runoff of this location. Land disturbance activities associated with constructing and removing a sediment basin at this location would cause adverse impact.

### USE OF ALTERNATIVE AND/OR ADDITIONAL BMPs:

No alternate or additional BMPs will be used on this project.

### DISCHARGES INTO OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an Impaired stream segment that has been listed for criteria violated, "Blo F " (Impaired fish community) and/or "Blo M" (Impaired macro Invertebrate community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR " (urban runoff).

### STREAM AND OPEN-WATER BUFFER ENCROACHMENTS

Stream Buffers are Impacted by this project.

The Contractor is not authorized to enter into stream buffers, except as described in the table below:

Name or Number of Stream or other Water Body Type	Location of Buffered Streams and State Waters **			Stream Type (Warm/Cold Water)*	Buffer Impacted? (Yes/No)	Buffer Variance Required? (Yes/No)
	Stream Alignment	Begin Station and Offset	End Station and Offset			
WILLACOOCHEE RIVER	CR 252/FRANK RD	30+50/100' LT	35+65/100' LT	WARM	Yes	NO
WILLACOOCHEE RIVER	CR 252/FRANK RD	30+50/100' RT	35+65/100' RT	WARM	Yes	NO
Description of Allowable activities and/or restrictions within the buffer and approximate location of Impacts: The work consists of removal of existing bridge Installation of proposed bridge and bents, placement of Fill, grading and grassing.						

Unless noted otherwise, utility companies will be submitting the required permits/variances in conjunction with the impacts caused by their activities. If utility impacts are covered by the Department's stream buffer variance, this shall be noted in the buffer-variance-required column.

\*Warm water streams have a 25-foot minimum buffer as measured from the wooded vegetation. Cold Water streams have a 50-foot buffer as measured from the wooded vegetation.  
\*\* Locations are approximate, a detailed location of stream buffers and authorized work areas are shown on the Individual BMP sheets.

Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wooded vegetation without first acquiring the necessary variances and permits.  
The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities.

### SAMPLING GENERAL NOTES:

Representative sampling may be utilized on this project as explained here. The Individual outfall drainage basins along the project corridor have been carefully evaluated and compared on the basis of four characteristics: the type of construction activity, the disturbed acreage, the average slope about the outfall, and the soil erosion Index 0-10, 10 being the most erodible soil. The construction activity types are new road on fill, new road in cut, road widening, and maintenance/safety. The disturbed area classes are less than or equal to 1 acre, greater than 1 acre to less than 2 acres, and equal to or greater than 2 acres. The average outfall slope is mild if it is equal to or less than 0.03, and steep if it is greater than 0.03. The soil erosion Index is low if it is less than or equal to 5 and high if it is greater than 5. After evaluation of these characteristics as presented in the project's drainage area map, hydrology and hydraulic studies, construction plans, geotechnical soil survey, and erosion sedimentation and pollution control plans, the Department has determined that the representative sampling scheme shown below is valid for the duration of the project. The table shows the groups of similar outfall drainage basins.

The Increase in turbidity at the specified locations in the table below will be representative of the alternate outfall drainage basins when similar outfall drainage basins exist. Approved primary and alternate representative sampled features are identified in the table below.

											Representative Sampling Scheme				
SAMPLING INFORMATION											OUTFALL CHARACTERISTICS				
Primary Sampled Feature	Location (station and offset)	Name of Receiving Water	Applicable Construction Stage for Sampling	Sampling Type (outfall or receiving water)	Drainage Area for the receiving water (mi <sup>2</sup> )	TOTAL PROJECT SIZE	Warm or Cold Water Stream	Appendix B NTU Value (outfall sampling only)	Allowable NTU Increase (receiving water sampling only)	Location Description	Construction Activity	Disturbed Area (acres)	Average Outfall Slope (rise/run)	Soil Erosion Index	Alternate Outfall Drainage Basins
1 Up	33+05/75' LT	WILLACOOCHEE RIVER	All	Receiving Water	64.39	0.0	Warm	N/A	25	Upstream	Bridge Replacement	N/A	N/A	N/A	N/A
1 Dn	34+20/75' RT	WILLACOOCHEE RIVER	All	Receiving Water	64.39	3.343	Warm	N/A	25	Downstream	Bridge Replacement	2,558	N/A	N/A	N/A
2	34+95/45' LT	WILLACOOCHEE RIVER	All	OUTFALL	64.39	1.03 AC	Warm	750	N/A	End of Ditch	NEW ROAD FILL	N/A	0.015	WARM	N/A

(Note that outfall sampling requires one sample per event while receiving-water sampling requires a pair of samples, one sample upstream and one sample downstream, per event for comparison. The italicized example information in the table represents the minimum number of sampled features for representative sampling and is to be replaced with site-specific information. Alternate sampled features are optional. According to the EPD, additional sampling sites may be required depending on significant changes during the project. Determine the representative sampling scheme by using the Representative Sampling Database for GDOT Internal use on the RQADS webpage under Design Policies and Guidelines in the ESPCP box Internal Representative Sampling Database. For consultants, use the external database External Representative Sampling Database. Alternatively, determine the scheme by hand.)

The primary sampled features specified should be used as the initial sampling locations. An alternate sampled feature may be used if additional sampling is required or to replace a primary sampled feature that is no longer located within the active phase of construction.

### INSPECTING AND SAMPLING PROCEDURES

See Special Provision 167 and other contract documents for Monitoring Sampling Methods and Procedures.

### READY MIX CHUTE WASH-DOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of Portland cement concrete is prohibited on this site.

In accordance with Standard Specification 107, Legal Regulations and Responsibility to the Public, only the discharge chute utilized in the delivery of Portland cement concrete may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overlapping. Immediately after the wash-down operations are completed and after the wash-down water soaked into the ground, the pit shall be filled in, and the ground above it shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down pit that includes the following: (1) a location away from any storm drain, stream, or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".